

AMENDMENTS

Version with markings to show changes made

Replace the paragraph beginning on P. 2, line 1, with the following paragraphs

-- The invention is intended to create a new kind of doctor for a suction roll particularly in paper machines, by means of which water can be removed from the suction roll more effectively than previously. [The characteristic features of this invention are described in the accompanying Claims.]

A doctor for removing water from a suction roll in a paper machine includes a doctor slat fitted against the surface of the suction roll extending essentially over the entire width of the suction roll, as well as its holder and loading devices. In the direction of the rotation of the suction roll, there is a doctor blade and a blade holder fitted to the doctor after the doctor slat and arranged to remove the water lifted off the suction roll by the doctor slat. The angle between the lines of contact of the doctor slat and the doctor blade in relation to the imagined axis of rotation of the suction roll is 15 - 70°, preferably 20 - 40°.

The doctor has a frame construction, to which holders of both the doctor slat and the doctor blade are fitted. The holder of the doctor slat is fitted detachably to the frame construction. The frame construction includes attachments corresponding to the blade holder of the doctor blade in the vicinity of the holder of the doctor slat.

The combination construction of a doctor according to the invention actualizes the advantageous properties of the doctor, in practice creating an excellent doctoring result. Simultaneously, a significant increase in the total solids content is achieved. Besides water, fibres and filler substances are also removed from the holes in the suction roll. This reduces the amount of loose material rotating with the suction roll and also helps the suction roll's holes to remain clean. The doctor also evens the humidity in the area around the suction roll, as most of the water is recovered

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in a controlled manner. Thus, the web, felt, or similar do not become soaked, instead an even moisture profile is maintained. A doctor according to the invention can be used in all suction roll positions. In addition, only small alterations are required to adapt the doctor to a very broad area of the suction roll's speed range. --

P. 5, line 34, insert the paragraph

-- Although the invention has been described by reference to specific embodiments, it should be understood that numerous changes may be made within the spirit and scope of the inventive concepts described. Accordingly, it is intended that the invention not be limited to the described embodiments, but that it have the full scope defined by the language of the following claims. --;

Amend claims 1-4 as follows:

1. (Amended) A doctor for a suction roll particularly in a paper machine, which doctor [(10)] is intended to remove water from the suction roll [(15)] and which doctor [(10)] includes a doctor slat [(12)] fitted against the surface of the suction roll [(15)] to extend essentially over the entire width of the suction roll [(15)], as well as its holder [(20)] and loading devices [(19)], [characterized] characterized in that, in the direction of the rotation of the suction roll [(15)], there is a doctor blade [(13)], which is as such known, with a blade holder [(21)] fitted to the doctor [(10)] after the doctor slat [(12)], arranged to remove the water lifted off the suction roll [(15)] by the doctor slat [(12)] and that the angle between the lines of contact of the doctor slat [(12)] and the doctor blade [(13)] in relation to the imagined axis of rotation of the suction roll [(15)] is 15 - 70°[, preferably 20 - 40°].

2. (Amended) A doctor according to Claim 1, [characterized] characterized in that the doctor [(10)] has a frame construction [(11)], to which the holders [(20, 21)] of both the doctor slat [(12)] and the doctor blade [(13)] are fitted.

3. (Amended) A doctor according to Claim 2, [characterized] characterized in that the holder [(20)] of the doctor slat [(12)] is fitted detachably to the frame construction [(11)].

4. (Amended) A doctor according to Claim 3, [characterized] characterized in that the frame construction [(11)] includes attachments corresponding to the blade holder [(21)] of the doctor blade [(13)] in the vicinity of the holder [(20)] of the doctor slat [(12)].

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